HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use Oxaliplatin Injection safely and effectively. See full prescribing information for Oxaliplatin Injection.

Oxaliplatin Injection (Oxaliplatin Injection) concentrate, for solution for intravenous use

Initial U.S. Approval: 2009

WARNING: ANAPHYLACTIC REACTIONS

See full prescribing information for complete boxed warning.

Anaphylactic reactions to oxaliplatin have been reported, and may occur within minutes of oxaliplatin administration. Epinephrine, corticosteroids, and antihistamines have been employed to alleviate symptoms. (5.1)

INDICATIONS AND USAGE

Oxaliplatin Injection is a platinum-based drug used in combination with infusional 5-fluorouracil (5-FU)/leucovorin (LV), which is indicated for:

- adjuvant treatment of stage III colon cancer in patients who have undergone complete resection of the primary tumor.
- · treatment of advanced colorectal cancer. (1)

DOSAGE AND ADMINISTRATION

- Administer Oxaliplatin Injection in combination with 5-fluorouracil/ leucovorin every 2 weeks. (2.1):
 - Day 1: Oxaliplatin Injection 85 mg/m² intravenous (IV) infusion in 250-500 mL 5% Dextrose Injection, USP (D5W) and leucovorin 200 mg/m² intravenous infusion in 5% Dextrose Injection, USP both given over 120 minutes at the same time in separate bags using a Y-line, followed by 5-fluorouracil 400 mg/m² intravenous bolus given over 2-4 minutes, followed by 5-fluorouracil 600 mg/m² intravenous infusion in 500 mL 5% Dextrose Injection, USP (recommended) as a 22-hour continuous infusion.
 - Day 2: Leucovorin 200 mg/m² intravenous infusion over 120 minutes, followed by 5-fluorouracil 400 mg/m² intravenous bolus given over 2-4 minutes, followed by 5-fluorouracil 600 mg/m² intravenous infusion in 500 mL 5% Dextrose Injection, USP (recommended) as a 22-hour continuous infusion.
- Reduce the dose of Oxaliplatin Injection to 75 mg/m² (adjuvant setting) or 65 mg/m² (advanced colorectal cancer) (2.2):

- if there are persistent grade 2 neurosensory events that do not resolve.
- after recovery from grade 3/4 gastrointestinal toxicities (despite prophylactic treatment) or grade 4 neutropenia or grade 3/4 thrombocytopenia. Delay next dose until neutrophils ≥1.5 × 10⁹/L and platelets ≥75 × 10⁹/L.
- Discontinue Oxaliplatin Injection if there are persistent Grade 3 neurosensory events. (2.2)
- Never reconstitute or prepare final dilution with a sodium chloride solution or other chloride-containing solutions. (2.3)

DOSAGE FORMS AND STRENGTHS

Single-use vials of 50 mg and 100 mg **Oxaliplatin Injection** as a sterile, preservative-free, aqueous solution at a concentration of 5 mg/ml for dilution.

- CONTRAINDICATIONS -

• Known allergy to oxaliplatin or other platinum compounds. (4, 5.1)

- WARNINGS AND PRECAUTIONS

- Allergic Reactions: Monitor for development of rash, urticaria, erythema, pruritis, bronchospasm, and hypotension. (5.1)
- Neuropathy: Reduce the dose or discontinue Oxaliplatin Injection if necessary. (5.2)
- Pulmonary Toxicity: May need to discontinue Oxaliplatin Injection until interstitial lung disease or pulmonary fibrosis are excluded. (5.3)
- Hepatotoxicity: Monitor liver function tests. (5.4)
- Pregnancy: Fetal harm can occur when administered to a pregnant woman.
 Women should be apprised of the potential harm to the fetus. (5.5, 8.1)

- ADVERSE REACTIONS -

Most common adverse reactions (incidence \geq 40%) were peripheral sensory neuropathy, neutropenia, thrombocytopenia, anemia, nausea, increase in transaminases and alkaline phosphatase, diarrhea, emesis, fatigue and stomatitis. Other adverse reactions, including serious adverse reactions, have been reported. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Teva USA at 1-866-832-8537 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

To report SUSPECTED ADVERSE REACTIONS, contact at or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling

Revised: 08/2009

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PRINCIPAL DISPLAY PANEL - 100 MG/20 ML VIAL CARTON

FULL PRESCRIBING INFORMATION

WARNING: ANAPHYLACTIC REACTIONS

Anaphylactic reactions to oxaliplatin have been reported, and may occur within minutes of oxaliplatin administration. Epinephrine, corticosteroids, and antihistamines have been employed to alleviate symptoms of anaphylaxis [see Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE

Oxaliplatin Injection, used in combination with infusional 5-fluorouracil/leucovorin, is indicated for:

- adjuvant treatment of stage III colon cancer in patients who have undergone complete resection of the primary tumor.
- treatment of advanced colorectal cancer.

2 DOSAGE AND ADMINISTRATION

Oxaliplatin (oxaliplatin) Injection should be administered under the supervision of a qualified physician experienced in the use of cancer chemotherapeutic agents. Appropriate management of therapy and complications is possible only when adequate diagnostic and treatment facilities are readily available.

2.1 Dosage

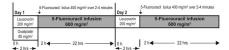
Administer Oxaliplatin Injection in combination with 5-fluorouracil/leucovorin every 2 weeks. For advanced disease, treatment is recommended until disease progression or unacceptable toxicity. For adjuvant use, treatment is recommended for a total of 6 months (12 cycles):

Day 1: Oxaliplatin Injection 85 mg/m² intravenous infusion in 250-500 mL 5% Dextrose injection, USP (D5W) and leucovorin 200 mg/m² intravenous infusion in 5% Dextrose injection, USP both given over 120 minutes at the same time in separate bags using a Y-line, followed by 5-fluorouracil 400 mg/m² intravenous bolus given over 2-4 minutes, followed by 5-fluorouracil 600 mg/m² intravenous infusion in 500 mL 5% Dextrose injection, USP (recommended) as a 22-hour continuous infusion.

Day 2: Leucovorin 200 mg/m² intravenous infusion over 120 minutes, followed by 5-fluorouracil 400 mg/m² intravenous bolus given over 2-4 minutes, followed by 5-fluorouracil 600 mg/m² intravenous infusion in 500 mL 5% Dextrose injection, USP (recommended) as a 22-hour continuous infusion.

Figure 1

^{*} Sections or subsections omitted from the full prescribing information are not listed



The administration of Oxaliplatin Injection does not require prehydration. Premedication with antiemetics, including 5-HT₃ blockers with or without dexamethasone, is recommended.

For information on 5-fluorouracil and leucovorin, see the respective package inserts.

2.2 Dose Modification Recommendations

Prior to subsequent therapy cycles, patients should be evaluated for clinical toxicities and recommended laboratory tests [see Warnings and Precautions (5.6)]. Prolongation of infusion time for Oxaliplatin Injection from 2 hours to 6 hours may mitigate acute toxicities. The infusion times for 5-fluorouracil and leucovorin do not need to be changed.

Adjuvant Therapy in Patients with Stage III Colon Cancer

Neuropathy and other toxicities were graded using the NCI CTC scale version 1 [see Warnings and Precautions (5.2)].

For patients who experience persistent Grade 2 neurosensory events that do not resolve, a dose reduction of Oxaliplatin Injection to 75 mg/m² should be considered. For patients with persistent Grade 3 neurosensory events, discontinuing therapy should be considered. The infusional 5-fluorouracil/leucovorin regimen need not be altered.

A dose reduction of Oxaliplatin Injection to 75 mg/m² and infusional 5-fluorouracil to 300 mg/m² bolus and 500 mg/m² 22 hour infusion is recommended for patients after recovery from grade 3/4 gastrointestinal (despite prophylactic treatment) or grade 4 neutropenia or grade 3/4 thrombocytopenia. The next dose should be delayed until: neutrophils $\ge 1.5 \times 10^9$ /L and platelets $\ge 75 \times 10^9$ /L.

Dose Modifications in Therapy in Previously Untreated and Previously Treated Patients with Advanced Colorectal Cancer

Neuropathy was graded using a study-specific neurotoxicity scale [see Warnings and Precautions (5.2)]. Other toxicities were graded by the NCI CTC, Version 2.0.

For patients who experience persistent Grade 2 neurosensory events that do not resolve, a dose reduction of Oxaliplatin Injection to 65 mg/m² should be considered. For patients with persistent Grade 3 neurosensory events, discontinuing therapy should be considered. The 5-fluorouracil/leucovorin regimen need not be altered.

A dose reduction of Oxaliplatin Injection to 65 mg/m² and 5-fluorouracil by 20% (300 mg/m² bolus and 500 mg/m² 22-hour infusion) is recommended for patients after recovery from grade 3/4 gastrointestinal (despite prophylactic treatment) or grade 4 neutropenia or grade 3/4 thrombocytopenia. The next dose should be delayed until: neutrophils $\ge 1.5 \times 10^9$ /L and platelets $\ge 7.5 \times 10^9$ /L.

2.3 Preparation of Infusion Solution

Concentrate solution for infusion

Do not freeze and protect from light the concentrated solution.

Dilution must never be performed with a sodium chloride solution or other chloride-containing solutions.

The solution must be diluted in an infusion solution of 250-500 mL of 5% Dextrose Injection, USP.

After dilution with 250-500 mL of 5% Dextrose Injection, USP, the shelf life is 6 hours at room temperature [20-25°C (68-77°F)] or up to 24 hours under refrigeration [2-8°C (36-46°F)]. After dilution, protection from light is not required.

Oxaliplatin Injection is incompatible in solution with alkaline medications or media (such as basic solutions of 5-fluorouracil) and must not be mixed with these or administered simultaneously through the same infusion line. The infusion line should be flushed with 5% Dextrose injection, USP prior to administration of any concomitant medication.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration and discarded if present.

Needles or intravenous administration sets containing aluminum parts that may come in contact with Oxaliplatin Injection should not be used for the preparation or mixing of the drug. Aluminum has been reported to cause degradation of platinum compounds.

3 DOSAGE FORMS AND STRENGTHS

Oxaliplatin Injection is a sterile, preservative-free, aqueous solution at a concentration of 5 mg/mL for dilution and supplied in single-use vials containing 50 mg or 100 mg of oxaliplatin.

4 CONTRAINDICATIONS

Oxaliplatin Injection should not be administered to patients with a history of known allergy to oxaliplatin or other platinum compounds [see Warnings and Precautions (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Allergic Reactions

See boxed warning

Grade 3/4 hypersensitivity, including anaphylactic/anaphylactoid reactions, to oxaliplatin has been observed in 2-3% of colon cancer patients. These allergic reactions which can be fatal, can occur within minutes of administration and at any cycle, and were similar in nature and severity to those reported with other platinum-containing compounds, such as rash, urticaria, erythema, pruritus, and, rarely, bronchospasm and hypotension. The symptoms associated with hypersensitivity reactions reported in the previously untreated patients were urticaria, pruritus, flushing of the face, diarrhea associated with oxaliplatin infusion, shortness of breath, bronchospasm, diaphoresis, chest pains, hypotension, disorientation and syncope. These reactions are usually managed with standard epinephrine, corticosteroid, antihistamine therapy, and may require discontinuation of therapy. Drug-related deaths associated with platinum compounds from anaphylaxis have been reported.

5.2 Neuropathy

Oxaliplatin is associated with two types of neuropathy:

An acute, reversible, primarily peripheral, sensory neuropathy that is of early onset, occurring within hours or one to two days of dosing, that resolves within 14 days, and that frequently recurs with further dosing. The symptoms may be precipitated or exacerbated by exposure to cold temperature or cold objects and they usually present as transient paresthesia, dysesthesia and hypoesthesia in the hands, feet, perioral area, or throat. Jaw spasm, abnormal tongue sensation, dysarthria, eye pain, and a feeling of chest pressure have also been observed. The acute, reversible pattern of sensory neuropathy was observed in about 56% of study patients who received oxaliplatin with 5-fluorouracil/leucovorin. In any individual cycle acute neurotoxicity was observed in approximately 30% of patients. In adjuvant patients the median cycle of onset for grade 3 peripheral sensory neuropathy was 9 in the previously treated patients the median number of cycles administered on the oxaliplatin with 5-fluorouracil/leucovorin combination arm was 6

An acute syndrome of pharyngolaryngeal dysesthesia seen in 1-2% (grade 3/4) of patients previously untreated for advanced colorectal cancer, and the previously treated patients, is characterized by subjective sensations of dysphagia or dyspnea, without any laryngospasm or bronchospasm (no stridor or wheezing). Ice (mucositis prophylaxis) should be avoided during the infusion of Oxaliplatin Injection because cold temperature can exacerbate acute neurological symptoms.

A persistent (>14 days), primarily peripheral, sensory neuropathy that is usually characterized by paresthesias, dysesthesias, hypoesthesias, but may also include deficits in proprioception that can interfere with daily activities (e.g., writing, buttoning, swallowing, and difficulty walking from impaired proprioception). These forms of neuropathy occurred in 48% of the study patients receiving oxaliplatin with 5-fluorouracil/leucovorin. Persistent neuropathy can occur without any prior acute neuropathy event. The majority of the patients (80%) who developed grade 3 persistent neuropathy progressed from prior Grade 1 or 2 events. These symptoms may improve in some patients upon discontinuation of oxaliplatin

In the adjuvant colon cancer trial, neuropathy was graded using a prelisted module derived from the Neuro-Sensory section of the National Cancer Institute Common Toxicity Criteria (NCI CTC) scale, Version 1, as follows:

Table 1 - NCI CTC Grading for Neuropathy in Adjuvant Patients

Grade	Definition			
Grade 0	No change or none			
Grade 1	Mild paresthesias, loss of deep tendon reflexes			
Grade 2	Mild or moderate objective sensory loss, moderate paresthesias			
Grade 3	Severe objective sensory loss or paresthesias that interfere with function			
Grade 4	Not applicable			

Peripheral sensory neuropathy was reported in adjuvant patients treated with the oxaliplatin combination with a frequency of 92% (all grades) and 13% (grade 3). At the 28-day follow-up after the last treatment cycle, 60% of all patients had any grade (Grade 1=40%, Grade 2=16%, Grade 3=5%) peripheral sensory neuropathy decreasing to 39% at 6 months follow-up (Grade 1=31%, Grade 2=7%, Grade 3=1%) and 21% at 18 months of follow-up (Grade 1=17%, Grade 2=3%, Grade 3=1%).

In the advanced colorectal cancer studies, neuropathy was graded using a study-specific neurotoxicity scale, which was different from the NCI CTC scale, Version 2.0 (see below).

Table 2 - Grading Scale for Paresthesias/Dysesthesias in Advanced Colorectal Cancer Patients

Grade	Definition		
Grade 1	Resolved and did not interfere with functioning		
Grade 2	nterfered with function but not daily activities		
Grade 3	Pain or functional impairment that interfered with daily activities		
Grade 4	Persistent impairment that is disabling or life-threatening		

Overall, neuropathy was reported in patients previously untreated for advanced colorectal cancer in 82% (all grades) and 19% (grade 3/4), and in the previously treated patients in 74% (all grades) and 7% (grade 3/4) events. Information regarding reversibility of neuropathy was not available from the trial for patients who had not been previously treated for colorectal cancer.

5.3 Pulmonary Toxicity

Oxaliplatin has been associated with pulmonary fibrosis (<1% of study patients), which may be fatal. The combined incidence of cough and dyspnea was 7.4% (any grade) and <1% (grade 3) with no grade 4 events in the oxaliplatin plus infusional 5-fluorouracil/leucovorin arm compared to 4.5% (any grade) and no grade 3 and 0.1% grade 4 events in the infusional 5-fluorouracil/leucovorin alone arm in adjuvant colon cancer patients. In this study, one patient died from eosinophilic pneumonia in the oxaliplatin combination arm. The combined incidence of cough, dyspnea and hypoxia was 43% (any grade) and 7% (grade 3 and 4) in the oxaliplatin plus 5-fluorouracil/leucovorin arm compared to 32% (any grade) and 5% (grade 3 and 4) in the irinotecan plus 5-fluorouracil/leucovorin arm of unknown duration for patients with previously untreated colorectal cancer. In case of unexplained respiratory symptoms such as non-productive cough, dyspnea, crackles, or radiological pulmonary infiltrates, Oxaliplatin Injection should be discontinued until further pulmonary investigation excludes interstitial lung disease or pulmonary fibrosis.

5.4 Hepatotoxicity

Hepatotoxicity as evidenced in the adjuvant study, by increase in transaminases (57% vs. 34%) and alkaline phosphatase (42% vs. 20%) was observed more commonly in the oxaliplatin combination arm than in the control arm. The incidence of increased bilirubin was similar on both arms. Changes noted on liver biopsies include: peliosis, nodular regenerative hyperplasia or sinusoidal alterations, perisinusoidal fibrosis, and veno-occlusive lesions. Hepatic vascular disorders should be considered, and if appropriate, should be investigated in case of abnormal liver function test results or portal hypertension, which cannot be explained by liver metastases [see Clinical Trials Experience (6.1)].

5.5 Use in Pregnancy

Pregnancy Category D

Oxaliplatin Injection may cause fetal harm when administered to a pregnant woman. There are no adequate and well-controlled studies of Oxaliplatin Injection in pregnant women. Women of childbearing potential should be advised to avoid becoming pregnant while receiving treatment with Oxaliplatin Injection. [see Use in Specific Populations (8.1)].

5.6 Recommended Laboratory Tests

Standard monitoring of the white blood cell count with differential, hemoglobin, platelet count, and blood chemistries (including ALT, AST, bilirubin and creatinine) is recommended before each Oxaliplatin Injection cycle [see Dosage and Administration (2)]. There have been reports while on study and from post-marketing surveillance of prolonged prothrombin time and INR occasionally associated with hemorrhage in patients who received Oxaliplatin Injection plus 5-fluorouracil/leucovorin while on anticoagulants. Patients receiving Oxaliplatin Injection plus 5-fluorouracil/leucovorin and requiring oral anticoagulants may require closer monitoring.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Serious adverse reactions including anaphylaxis and allergic reactions, neuropathy, pulmonary toxicities and hepatotoxicities can occur [See Warnings and Precautions (5.1)].

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. More than 1100 patients with stage II or III colon cancer and more than 4,000 patients with advanced colorectal cancer have been treated in clinical studies with oxaliplatin. The most common adverse reactions in patients with stage II or III colon cancer receiving adjuvant therapy were peripheral sensory neuropathy, neutropenia, thrombocytopenia, anemia, nausea, increase in transaminases and alkaline phosphatase, diarrhea, emesis, fatigue and stomatitis. The most common adverse reactions in previously untreated and treated patients were peripheral sensory neuropathies, fatigue, neutropenia, nausea, emesis, and diarrhea [see Warnings and Precautions (5)].

Combination Adjuvant Therapy with Oxaliplatin and Infusional 5-Fluorouracil/Leucovorin in Patients with Colon Cancer

One thousand one hundred and eight patients with stage II or III colon cancer, who had undergone complete resection of the primary tumor, have been treated in a clinical study with oxaliplatin in combination with infusional 5-fluorouracil/leucovorin [see Clinical Studies (14)]. The incidence of grade 3 or 4 adverse reactions was 70% on the oxaliplatin combination arm, and 31% on the infusional 5-fluorouracil/leucovorin arm. The adverse reactions in this trial are shown in the tables below. Discontinuation of treatment due to adverse reactions occurred in 15% of the patients receiving oxaliplatin and infusional 5-fluorouracil/leucovorin. Both 5-fluorouracil/leucovorin and oxaliplatin are associated with gastrointestinal or hematologic adverse reactions. When oxaliplatin is administered in combination with infusional 5-fluorouracil/leucovorin, the incidence of these events is increased.

The incidence of death within 28 days of last treatment, regardless of causality, was 0.5% (n=6) in both the oxaliplatin combination and infusional 5-fluorouracil/leucovorin arms, respectively. Deaths within 60 days from initiation of therapy were 0.3% (n=3) in both the oxaliplatin combination and infusional 5-fluorouracil/leucovorin arms, respectively. On the oxaliplatin combination arm, 3 deaths were due to sepsis/neutropenic sepsis, 2 from intracerebral bleeding and one from eosinophilic pneumonia. On the 5-fluorouracil/leucovorin arm, one death was due to suicide, 2 from Steven-Johnson Syndrome (1 patient also had sepsis), 1 unknown cause, 1 anoxic cerebral infarction and 1 probable abdominal aorta rupture.

The following table provides adverse reactions reported in the adjuvant therapy colon cancer clinical trial [see Clinical Studies (14)] by body system and decreasing order of frequency in the oxaliplatin and infusional 5-fluorouracil/leucovorin arm for events with overall incidences \geq 5% and for NCI grade 3/4 events with incidences \geq 1%.

Table 3 - Adverse Reactions Reported in Patients with Colon Cancer receiving Adjuvant Treatment (≥5% of all patients and with ≥1% NCI Grade 3/4 events)

	Oxaliplatin + 5-Fluo N=1	orouracil/Leucovorin 108	5-Fluorouracil/Leucovorin N=1111		
Adverse reaction	All Grades	Grade 3/4	All Grades	Grade 3/4	
(WHO/Pref)	(%)	(%)	(%)	(%)	
Any Event	100	70	99	31	
	Allerg	gy/Immunology			
Allergic Reaction	10	3	2	<1	
	Constitutio	onal Symptoms/Pain			
Fatigue	44	4	38	1	
Abdominal Pain	18	1	17	2	
	Derr	natology/Skin			
Skin Disorder	32	2	36	2	
Injection Site Reaction*	11	3	10	3	
	Gas	strointestinal			
Nausea	74	5	61	2	
Diarrhea	56	11	48	7	
Vomiting	47	6	24	1	
Stomatitis	42	3	40	2	
Anorexia	13	1	8	<1	
	Fev	ver/Infection			
Fever	27	1	12	1	
Infection	25	4	25	3	
	· ·	Neurology			
Overall Peripheral Sensory					
Neuropathy	92	12	16	<1	

^{*}Includes thrombosis related to the catheter

The following table provides adverse reactions reported in the adjuvant therapy colon cancer clinical trial [see Clinical Studies (14)] by body system and decreasing order of frequency in the oxaliplatin and infusional 5-fluorouracil/leucovorin arm for events with overall incidences \geq 5% but with incidences \leq 1% NCI grade 3/4 events.

Table 4 - Adverse Reactions Reported in Patients with Colon Cancer receiving Adjuvant Treatment (≥ 5% of all patients, but with <1% NCI Grade 3/4 events)

	Oxaliplatin + 5-Fluorouracil/Leucovorin N=1108	5-Fluorouracil/Leucovorin N=1111
Adverse reaction (WHO/Pref)	All Grades (%)	All Grades (%)
	Allergy/Immunology	
Rhinitis	6	8

Constitutional Symptoms/Pain/Ocular/Visual				
Epistaxis	16	12		
Weight Increase	10	10		
Conjunctivitis	9	15		
Headache	7	5		
Dyspnea	5	3		
Pain	5	5		
Lacrimation Abnormal	4	12		
	Dermatology/Skin			
Alopecia	30	28		
	Gastrointestinal			
Constipation	22	19		
Taste Perversion	12	8		
Dyspepsia	8	5		
	Metabolic			
Phosphate Alkaline increased	42	20		
	Neurology			
Sensory Disturbance	8	1		

Although specific events can vary, the overall frequency of adverse reactions was similar in men and women and in patients <65 and ≥65 years. However, the following grade 3/4 events were more common in females: diarrhea, fatigue, granulocytopenia, nausea and vomiting. In patients ≥65 years old, the incidence of grade 3/4 diarrhea and granulocytopenia was higher than in younger patients. Insufficient subgroup sizes prevented analysis of safety by race. The following additional adverse reactions, were reported in $\ge2\%$ and <5% of the patients in the oxaliplatin and infusional 5-fluorouracil/Leucovorin combination arm (listed in decreasing order of frequency): pain, leukopenia, weight decrease, coughing.

The number of patients who developed secondary malignancies was similar; 62 in the oxaliplatin combination arm and 68 in the infusional 5- fluorouracil/leucovorin arm. An exploratory analysis showed that the number of deaths due to secondary malignancies was 1.96% in the oxaliplatin combination arm and 0.98% in infusional 5-fluorouracil/leucovorin arm. In addition, the number of cardiovascular deaths was 1.4% in the oxaliplatin combination arm as compared to 0.7% in the infusional 5-fluorouracil/leucovorin arm. Clinical significance of these findings is unknown.

Patients Previously Untreated for Advanced Colorectal Cancer

Two hundred and fifty-nine patients were treated in the oxaliplatin and 5-fluorouracil/leucovorin combination arm of the randomized trial in patients previously untreated for advanced colorectal cancer [see Clinical Studies (14)]. The adverse reaction profile in this study was similar to that seen in other studies and the adverse reactions in this trial are shown in the tables below.

Both 5-fluorouracil and oxaliplatin are associated with gastrointestinal and hematologic adverse reactions. When oxaliplatin is administered in combination with 5-fluorouracil, the incidence of these events is increased.

The incidence of death within 30 days of treatment in the previously untreated for advanced colorectal cancer study, regardless of causality, was 3% with the oxaliplatin and 5-fluorouracil/leucovorin combination, 5% with irinotecan plus 5-fluorouracil/leucovorin, and 3% with oxaliplatin plus irinotecan. Deaths within 60 days from initiation of therapy were 2.3% with the oxaliplatin and 5-fluorouracil/leucovorin combination, 5.1% with irinotecan plus 5-fluorouracil/leucovorin, and 3.1% with oxaliplatin plus irinotecan.

The following table provides adverse reactions reported in the previously untreated for advanced colorectal cancer study [see Clinical Studies (14)] by body system and decreasing order of frequency in the oxaliplatin and 5-fluorouracil/leucovorin combination arm for events with overall incidences \geq 5% and for grade 3/4 events with incidences \geq 1%.

Table 5 – Adverse Reactions Reported in Patients Previously Untreated for Advanced Colorectal Cancer Clinical Trial (\geq 5% of all patients and with \geq 1% NCI Grade 3/4 events)

patients and with 21% INCI Gra	Oxalipla 5-Fluorouracil/ N=25	Leucovorin	Irinotecan + 5-Fluorouracil/Leucovorin N=256		Oxaliplatin + Irinotecan N=258	
Adverse reaction	All Grades	Grade 3/4	All Grades	Grade 3/4	All Grades	Grade 3/4
(WHO/Pref)	(%)	(%)	(%)	(%)	(%)	(%)
Any Event	99	82	98	70	99	76
		Allergy/Im	nunology			
Hypersensitivity	12	2	5	0	6	1
		Cardiova	scular			
Thrombosis	6	5	6	6	3	3
Hypotension	5	3	6	3	4	3
	Constitut	ional Sympton	ns/Pain/Ocular/Vi	sual		
Fatigue	70	7	58	11	66	16
Abdominal Pain	29	8	31	7	39	10
Myalgia	14	2	6	0	9	2
Pain	7	1	5	1	6	1
Vision abnormal	5	0	2	1	6	1
Neuralgia	5	0	0	0	2	1
	•	Dermatolo	ogy/Skin	•	•	
Skin reaction – hand/foot	7	1	2	1	1	0
Injection site reaction	6	0	1	0	4	1
		Gastroin	testinal	I	l	
Nausea	71	6	67	15	83	19
Diarrhea	56	12	65	29	76	25
Vomiting	41	4	43	13	64	23
Stomatitis	38	0	25	1	19	1
Anorexia	35	2	25	4	27	5
Constipation	32	4	27	2	21	2
Diarrhea-colostomy	13	2	16	7	16	3
Gastrointestinal NOS*	5	2	4	2	3	2
		Hematology				_
Infection normal ANC [†]	10	4	5	1	7	2
Infection low ANC [†]	8	8	12	11	9	8
Lymphopenia	6	2	4	1	5	2
Febrile neutropenia	4	4	15	14	12	11
			Laboratory/Renal			
Hyperglycemia	14	2	11	3	12	3
Hypokalemia	11	3	7	4	6	2
Dehydration	9	5	16	11	14	7
Hypoalbuminemia	8	0	5	2	9	1
Hyponatremia	8	2	7	4	4	1
Urinary frequency	5	1	2	1	3	1
ormary mequency		Neuro				
Overall Neuropathy	82	19	18	2	69	7
Paresthesias	77	18	16	2	62	6
1 aresurestas	11	10	10		02	

Pharyngo-laryngeal dysesthesias						
	38	2	1	0	28	1
Neuro-sensory	12	1	2	0	9	1
Neuro NOS*	1	0	1	0	1	0
		Pulmo	onary			
Cough	35	1	25	2	17	1
Dyspnea	18	7	14	3	11	2
Hiccups	5	1	2	0	3	2

^{*}Not otherwise specified

The following table provides adverse reactions reported in the previously untreated for advanced colorectal cancer study [see Clinical Studies (14)] by body system and decreasing order of frequency in the oxaliplatin and 5-fluorouracil/leucovorin combination arm for events with overall incidences ≥5% but with incidences <1% NCI Grade 3/4 events.

Table 6 - Adverse Reactions Reported in Patients Previously Untreated for Advanced Colorectal Cancer Clinical Trial (≥5% of all patients but with < 1% NCI Grade 3/4 events)

patients but with < 170 Net Gr	Oxaliplatin +	Irinotecan +	Oxaliplatin +
	5-Fluorouracil/Leucovorin N=259	5-Fluorouracil/Leucovorin N=256	Irinotecan N=258
Adverse reaction	All Grades	All Grades	All Grades
(WHO/Pref)	(%)	(%)	(%)
	Allergy/Im	munology	
Rash	11	4	7
Rhinitis allergic	10	6	6
	Cardiov	ascular	
Edema	15	13	10
	Constitutional Sympton	ms/Pain/Ocular/Visual	
Headache	13	6	9
Weight loss	11	9	11
Epistaxis	10	2	2
Tearing	9	1	2
Rigors	8	2	7
Dysphasia	5	3	3
Sweating	5	6	12
Arthralgia	5	5	8
	Dermatol	logy/Skin	
Alopecia	38	44	67
Flushing	7	2	5
Pruritis	6	4	2
Dry Skin	6	2	5
	Gastroir	ntestinal	
Taste perversion	14	6	8
Dyspepsia	12	7	5
Flatulence	9	6	5
Mouth Dryness	5	2	3
	Hematolog	y/Infection	
Fever normal ANC*	16	9	9
	Hepatic/Metabolic	/Laboratory/Renal	
Hypocalcemia	7	5	4

[†]Absolute neutrophil count

Elevated Creatinine	4	4	5
	Neuro	ology	
Insomnia	13	9	11
Depression	9	5	7
Dizziness	8	6	10
Anxiety	5	2	6

*Absolute neutrophil count

Adverse reactions were similar in men and women and in patients <65 and ≥65 years, but older patients may have been more susceptible to diarrhea, dehydration, hypokalemia, leukopenia, fatigue and syncope. The following additional adverse reactions, at least possibly related to treatment and potentially important, were reported in $\ge2\%$ and <5% of the patients in the oxaliplatin and 5-fluorouracil/leucovorin combination arm (listed in decreasing order of frequency): metabolic, pneumonitis, catheter infection, vertigo, prothrombin time, pulmonary, rectal bleeding, dysuria, nail changes, chest pain, rectal pain, syncope, hypertension, hypoxia, unknown infection, bone pain, pigmentation changes, and urticaria.

Previously Treated Patients with Advanced Colorectal Cancer

Four hundred and fifty patients (about 150 receiving the combination of oxaliplatin and 5-fluorouracil/leucovorin) were studied in a randomized trial in patients with refractory and relapsed colorectal cancer [see Clinical Studies (14)]. The adverse reaction profile in this study was similar to that seen in other studies and the adverse reactions in this trial are shown in the tables below.

Thirteen percent of patients in the oxaliplatin and 5-fluorouracil/leucovorin combination arm and 18% in the 5-fluorouracil/leucovorin arm of the previously treated study had to discontinue treatment because of adverse effects related to gastrointestinal, or hematologic adverse reactions, or neuropathies. Both 5-fluorouracil and oxaliplatin are associated with gastrointestinal and hematologic adverse reactions. When oxaliplatin is administered in combination with 5-fluorouracil, the incidence of these events is increased.

The incidence of death within 30 days of treatment in the previously treated study, regardless of causality, was 5% with the oxaliplatin and 5-fluorouracil/leucovorin combination, 8% with oxaliplatin alone, and 7% with 5-fluorouracil/leucovorin. Of the 7 deaths that occurred on the oxaliplatin and 5-fluorouracil/leucovorin combination arm within 30 days of stopping treatment, 3 may have been treatment related, associated with gastrointestinal bleeding or dehydration.

The following table provides adverse reactions reported in the previously treated study [see Clinical Studies (14)] by body system and in decreasing order of frequency in the oxaliplatin and 5-fluorouracil/leucovorin combination arm for events with overall incidences \geq 5% and for grade 3/4 events with incidences \geq 1%. This table does not include hematologic and blood chemistry abnormalities; these are shown separately below.

Table 7 – Adverse Reactions Reported In Previously Treated Colorectal Cancer Clinical Trial (≥5% of all patients and with ≥1% NCI Grade 3/4 events)

	5-Fluorouraci (N = 1		Oxalip (N = 1	•	Oxalip 5-Fluorouraci (N = 1	l/Leucovorin
Adverse reaction (WHO/Pref)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Any Event	98	41	100	46	99	73
		Cardiov	ascular	,		,
Dyspnea	11	2	13	7	20	4
Coughing	9	0	11	0	19	1
Edema	13	1	10	1	15	1
Thromboembolism	4	2	2	1	9	8
Chest Pain	4	1	5	1	8	1
		Constitutional S	Symptoms/Pain			
Fatigue	52	6	61	9	68	7
Back Pain	16	4	11	0	19	3
Pain	9	3	14	3	15	2
		Dermatol	ogy/Skin			

Injection Site Reaction	5	1	9	0	10	3
	•	Gastroir	ntestinal			
Diarrhea	44	3	46	4	67	11
Nausea	59	4	64	4	65	11
Vomiting	27	4	37	4	40	9
Stomatitis	32	3	14	0	37	3
Abdominal Pain	31	5	31	7	33	4
Anorexia	20	1	20	2	29	3
Gastroesophageal Reflux	3	0	1	0	5	2
	•	Hematolog	y/Infection	•	•	•
Fever	23	1	25	1	29	1
Febrile Neutropenia	1	1	0	0	6	6
	Нер	oatic/Metabolic	Laboratory/Ren	al	•	•
Hypokalemia	3	1	3	2	9	4
Dehydration	6	4	5	3	8	3
	•	Neur	ology	•	•	•
Neuropathy	17	0	76	7	74	7
Acute	10	0	65	5	56	2
Persistent	9	0	43	3	48	6

The following table provides adverse reactions reported in the previously treated study [see Clinical Studies (14)] by body system and in decreasing order of frequency in the oxaliplatin and 5-fluorouracil/leucovorin combination arm for events with overall incidences ≥5% but with incidences <1% NCI Grade 3/4 events.

Table 8 - Adverse Reactions Reported In Previously Treated Colorectal Cancer Clinical Trial ($\geq 5\%$ of all patients but with < 1% NCI Grade 3/4 events)

	5-Fluorouracil/Leucovorin (N = 142)	Oxaliplatin (N = 153)	Oxaliplatin + 5-Fluorouracil/Leucovorin (N = 150)
Adverse reaction	All Grades	All Grades	All Grades
(WHO/Pref)	(%)	(%)	(%)
	Allergy/Immunolog		
Rhinitis	4	6	15
Allergic Reaction	1	3	10
Rash	5	5	9
	Cardiovascular		
Peripheral Edema	11	5	10
	Constitutional Symptoms/Pain/	Ocular/Visual	
Headache	8	13	17
Arthralgia	10	7	10
Epistaxis	1	2	9
Abnormal Lacrimation	6	1	7
Rigors	6	9	7
	Dermatology/Skin		
Hand-Foot Syndrome	13	1	11
Flushing	2	3	10
Alopecia	3	3	7
	Gastrointestinal		
Constipation	23	31	32
Dyspepsia	10	7	14

Taste Perversion	1	5	13	
Mucositis	10	2	7	
Flatulence	6	3	5	
	Hepatic/Metabolic/Labora	tory/Renal		
Hematuria	4	0	6	
Dysuria	1	1	6	
	Neurology			
Dizziness	8	7	13	
Insomnia	4	11	9	
	Pulmonary	•		
Upper Resp Tract Infection 4 7 10				
Pharyngitis	10	2	9	
Hiccup	0	2	5	

Adverse reactions were similar in men and women and in patients <65 and ≥65 years, but older patients may have been more susceptible to dehydration, diarrhea, hypokalemia and fatigue. The following additional adverse reactions, at least possibly related to treatment and potentially important, were reported in $\ge2\%$ and <5% of the patients in the oxaliplatin and 5-fluorouracil/leucovorin combination arm (listed in decreasing order of frequency): anxiety, myalgia, erythematous rash, increased sweating, conjunctivitis, weight decrease, dry mouth, rectal hemorrhage, depression, ataxia, ascites, hemorrhoids, muscle weakness, nervousness, tachycardia, abnormal micturition frequency, dry skin, pruritus, hemoptysis, purpura, vaginal hemorrhage, melena, somnolence, pneumonia, proctitis, involuntary muscle contractions, intestinal obstruction, gingivitis, tenesmus, hot flashes, enlarged abdomen, urinary incontinence.

Hematologic Changes

The following tables list the hematologic changes occurring in $\ge 5\%$ of patients, based on laboratory values and NCI grade, with the exception of those events occurring in adjuvant patients and anemia in the patients previously untreated for advanced colorectal cancer, respectively, which are based on AE reporting and NCI grade alone.

Table 9 - Adverse Hematologic Reactions in Patients with Colon Cancer Receiving Adjuvant Therapy (≥5% of patients)

	Oxalipla Fluorouracil (N=11	/Leucovorin	5-Fluorouracil/Leucovorin (N=1111)	
Hematology Parameter	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Anemia	76	1	67	<1
Neutropenia	79	41	40	5
Thrombocytopenia	77	2	19	<1

Table 10 – Adverse Hematologic Reactions in Patients Previously Untreated for Advanced Colorectal Cancer (≥5% of patients)

Oxaliplatin + 5-Fluorouracil/Leucovorin N=259		Irinotecan + 5-Fluorouracil/Leucovorin N=256		Oxaliplatin + Irinotecan N=258		
Hematology Parameter	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Anemia	27	3	28	4	25	3
Leukopenia	85	20	84	23	76	24
Neutropenia	81	53	77	44	71	36
Thrombocytopenia	71	5	26	2	44	4

Table 11 – Adverse Hematologic Reactions in Previously Treated Patients (≥5% of patients)

		oucovorin Oxaliplatin (N=153)		Oxaliplatin + 5-Fluorouracil/Leucovorin (N=150)		
Hematology Parameter	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Anemia	68	2	64	1	81	2
Leukopenia	34	1	13	0	76	19
Neutropenia	25	5	7	0	73	44
Thrombocytopenia	20	0	30	3	64	4

Thrombocytopenia and Bleeding

Thrombocytopenia was frequently reported with the combination of oxaliplatin and infusional 5-fluorouracil/leucovorin. The incidence of all hemorrhagic events in the adjuvant and previously treated patients was higher on the oxaliplatin combination arm compared to the infusional 5-fluorouracil/leucovorin arm. These events included gastrointestinal bleeding, hematuria, and epistaxis. In the adjuvant trial, two patients died from intracerebral hemorrhages.

The incidence of Grade 3/4 thrombocytopenia was 2% in adjuvant patients with colon cancer. In patients treated for advanced colorectal cancer the incidence of Grade 3/4 thrombocytopenia was 3-5%, and the incidence of these events was greater for the combination of oxaliplatin and 5-fluorouracil/leucovorin over the irinotecan plus 5-fluorouracil/leucovorin or 5-fluorouracil/leucovorin control groups. Grade 3/4 gastrointestinal bleeding was reported in 0.2% of adjuvant patients receiving oxaliplatin and 5-fluorouracil/leucovorin. In the previously untreated patients, the incidence of epistaxis was 10% in the oxaliplatin and 5-fluorouracil/leucovorin arm, and 2% and 1%, respectively, in the irinotecan plus 5-fluorouracil/leucovorin or irinotecan plus oxaliplatin arms.

Neutropenia

Neutropenia was frequently observed with the combination of oxaliplatin and 5-fluorouracil/leucovorin, with Grade 3 and 4 events reported in 29% and 12% of adjuvant patients with colon cancer, respectively. In the adjuvant trial, 3 patients died from sepsis/ neutropenic sepsis. Grade 3 and 4 events were reported in 35% and 18% of the patients previously untreated for advanced colorectal cancer, respectively. Grade 3 and 4 events were reported in 27% and 17% of previously treated patients, respectively. In adjuvant patients the incidence of either febrile neutropenia (0.7%) or documented infection with concomitant grade 3/4 neutropenia (1.1%) was 1.8% in the oxaliplatin and 5-fluorouracil/leucovorin arm. The incidence of febrile neutropenia in the patients previously untreated for advanced colorectal cancer was 15% (3% of cycles) in the irinotecan plus 5-fluorouracil/leucovorin arm and 4% (less than 1% of cycles) in the oxaliplatin and 5-fluorouracil/leucovorin, arm. Additionally, in this same population, infection with grade 3 or 4 neutropenia was 12% in the irinotecan plus 5-fluorouracil/leucovorin, and 8% in the oxaliplatin and 5-fluorouracil/leucovorin combination. The incidence of febrile neutropenia in the previously treated patients was 1% in the 5-fluorouracil/leucovorin arm and 6% (less than 1% of cycles) in the oxaliplatin and 5-fluorouracil/leucovorin combination arm.

Gastrointestinal

In patients receiving the combination of oxaliplatin plus infusional 5-fluorouracil/leucovorin for adjuvant treatment for colon cancer the incidence of Grade 3/4 nausea and vomiting was greater than those receiving infusional 5-fluorouracil/leucovorin alone (see table). In patients previously untreated for advanced colorectal cancer receiving the combination of oxaliplatin and 5-fluorouracil/leucovorin, the incidence of Grade 3 and 4 vomiting and diarrhea was less compared to irinotecan plus 5-fluorouracil/leucovorin controls (see table). In previously treated patients receiving the combination of oxaliplatin and 5-fluorouracil/leucovorin, the incidence of Grade 3 and 4 nausea, vomiting, diarrhea, and mucositis/stomatitis increased compared to 5-fluorouracil/leucovorin controls (see table).

The incidence of gastrointestinal adverse reactions in the previously untreated and previously treated patients appears to be similar across cycles. Premedication with antiemetics, including 5-HT $_3$ blockers, is recommended. Diarrhea and mucositis may be exacerbated by the addition of oxaliplatin to 5-fluorouracil/leucovorin, and should be managed with appropriate supportive care. Since cold temperature can exacerbate acute neurological symptoms, ice (mucositis prophylaxis) should be avoided during the infusion of Oxaliplatin Injection .

Dermatologic

Oxaliplatin did not increase the incidence of alopecia compared to 5-fluorouracil/leucovorin alone. No complete alopecia was reported. The incidence of Grade 3/4 skin disorders was 2% in both the oxaliplatin plus infusional 5-fluorouracil/leucovorin and the infusional 5-fluorouracil/leucovorin alone arms in the adjuvant colon cancer patients. The incidence of hand-foot syndrome in

patients previously untreated for advanced colorectal cancer was 2% in the irinotecan plus 5-fluorouracil/leucovorin arm and 7% in the oxaliplatin and 5-fluorouracil/leucovorin combination arm. The incidence of hand-foot syndrome in previously treated patients was 13% in the 5-fluorouracil/leucovorin arm and 11% in the oxaliplatin and 5-fluorouracil/leucovorin combination arm.

Intravenous Site Reactions

Extravasation, in some cases including necrosis, has been reported.

Injection site reaction, including redness, swelling, and pain, has been reported.

Anticoagulation and Hemorrhage

There have been reports while on study and from post-marketing surveillance of prolonged prothrombin time and INR occasionally associated with hemorrhage in patients who received oxaliplatin plus 5-fluorouracil/leucovorin while on anticoagulants. Patients receiving oxaliplatin plus 5-fluorouracil/leucovorin and requiring oral anticoagulants may require closer monitoring.

Renal

About 5-10% of patients in all groups had some degree of elevation of serum creatinine. The incidence of Grade 3/4 elevations in serum creatinine in the oxaliplatin and 5-fluorouracil/leucovorin combination arm was 1% in the previously treated patients. Serum creatinine measurements were not reported in the adjuvant trial.

Hepatic

Hepatotoxicity (defined as elevation of liver enzymes) appears to be related to oxaliplatin combination therapy [see Warnings and Precautions (5.4)]. The following tables list the clinical chemistry changes associated with hepatic toxicity occurring in \geq 5% of patients, based on adverse reactions reported and NCI CTC grade for adjuvant patients and patients previously untreated for advanced colorectal cancer, laboratory values and NCI CTC grade for previously treated patients.

Table 12 - Adverse Hepatic Reactions in Patients with Stage II or III Colon Cancer Receiving Adjuvant Therapy (≥5% of patients)

	Oxaliplatin + 5-Fluorouracil/Leucovorin (N=1108)		5-Fluorouracil/Leucovorin		5-Fluorourac (N=1	il/Leucovorin 111)
Hepatic Parameter	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)		
Increase in transaminases	57	2	34	1		
ALP increased	42	<1	20	<1		
Bilirubinaemia	20	4	20	5		

Table 13 – Adverse Hepatic – Clinical Chemistry Abnormalities in Patients Previously Untreated for Advanced Colorectal Cancer (≥5% of patients)

	5-Fluorourac	Oxaliplatin + Irinotecan + Oxaliplatin + Irinotecan + Irinotecan + Oxaliplatin + Irinotecan + Ir		5-Fluorouracil/Leucovorin		
Clinical Chemistry	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
ALT (SGPT-ALAT)	6	1	2	0	5	2
AST (SGOT-ASAT)	17	1	2	1	11	1
Alkaline Phosphatase	16	0	8	0	14	2
Total Bilirubin	6	1	3	1	3	2

Table 14 – Adverse Hepatic – Clinical Chemistry Abnormalities in Previously Treated Patients (≥5% of patients)

	5-Fluorourac (N=1	il/Leucovorin [42]	Oxali (N=1	platin 153)		olatin + il/Leucovorin 150)
Clinical Chemistry	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
ALT (SGPT-ALAT)	28	3	36	1	31	0
AST (SGOT- ASAT)	39	2	54	4	47	0
Total Bilirubin	22	6	13	5	13	1

Thromboembolism

The incidence of thromboembolic events in adjuvant patients with colon cancer was 6% (1.8% grade 3/4) in the infusional 5-fluorouracil/leucovorin arm and 6% (1.2% grade 3/4) in the oxaliplatin and infusional 5-fluorouracil/leucovorin combined arm, respectively. The incidence was 6 and 9% of the patients previously untreated for advanced colorectal cancer and previously treated patients in the oxaliplatin and 5-fluorouracil/leucovorin combination arm, respectively.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of oxaliplatin. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Body as a whole:

angioedema, anaphylactic shock

Central and peripheral nervous system disorders:

loss of deep tendon reflexes, dysarthria, Lhermitte's sign, cranial nerve palsies, fasciculations, convulsion

Liver and Gastrointestinal system disorders:

severe diarrhea/vomiting resulting in hypokalemia, colitis (including *Clostridium difficile* diarrhea), metabolic acidosis; ileus; intestinal obstruction, pancreatitis; veno-occlusive disease of liver also known as sinusoidal obstruction syndrome, and perisinusoidal fibrosis which rarely may progress.

Hearing and vestibular system disorders:

deafness

Platelet, bleeding, and clotting disorders:

immuno-allergic thrombocytopenia

prolongation of prothrombin time and of INR in patients receiving anticoagulants

Red Blood Cell disorders:

 $he molytic\ uremic\ syndrome,\ immuno-allergic\ he molytic\ anemia$

Renal disorders:

Acute tubular necrosis, acute interstitial nephritis and acute renal failure.

Respiratory system disorders:

pulmonary fibrosis, and other interstitial lung diseases (sometimes fatal)

Vision disorders:

decrease of visual acuity, visual field disturbance, optic neuritis and transient vision loss (reversible following therapy discontinuation)

7 DRUG INTERACTIONS

No specific cytochrome P-450-based drug interaction studies have been conducted. No pharmacokinetic interaction between 85 mg/m² oxaliplatin and 5-fluorouracil/leucovorin has been observed in patients treated every 2 weeks. Increases of 5-fluorouracil plasma concentrations by approximately 20% have been observed with doses of 130 mg/m² oxaliplatin dosed every 3 weeks. Because platinum-containing species are eliminated primarily through the kidney, clearance of these products may be decreased by coadministration of potentially nephrotoxic compounds; although, this has not been specifically studied [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category D

Based on direct interaction with DNA, Oxaliplatin Injection may cause fetal harm when administered to a pregnant woman. There are no adequate and well-controlled studies of Oxaliplatin Injection in pregnant women. Reproductive toxicity studies in rats demonstrated adverse effects on fertility and embryo-fetal development at maternal doses that were below the recommended human dose based on body surface area. If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Women of childbearing potential should be advised to avoid becoming pregnant and use effective contraception while receiving treatment with Oxaliplatin Injection .

Pregnant rats were administered oxaliplatin at less than one-tenth the recommended human dose based on body surface area during gestation days 1-5 (pre-implantation), 6-10, or 11-16 (during organogenesis). Oxaliplatin caused developmental mortality (increased early resorptions) when administered on days 6-10 and 11-16 and adversely affected fetal growth (decreased fetal weight, delayed ossification) when administered on days 6-10. Administration of oxaliplatin to male and female rats prior to mating resulted in 97% post-implantation loss in animals that received approximately one-seventh the recommended human dose based on the body surface area.

8.3 Nursing Mothers

It is not known whether Oxaliplatin Injection or its derivatives are excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from Oxaliplatin Injection a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

The effectiveness of oxaliplatin in children has not been established.

8.5 Geriatric Use

No significant effect of age on the clearance of ultrafilterable platinum has been observed.

In the adjuvant therapy colon cancer randomized clinical trial, [see Clinical Studies (14)] 723 patients treated with oxaliplatin and infusional 5-fluorouracil/leucovorin were <65 years and 400 patients were \ge 65 years. A descriptive subgroup analysis demonstrated that the improvement in DFS for the oxaliplatin combination arm compared to the infusional 5-fluorouracil/leucovorin alone arm appeared to be maintained across genders. The effect of oxaliplatin in patients \ge 65 years of age was not conclusive. Insufficient subgroup sizes prevented analysis by race. Patients \ge 65 years of age receiving the oxaliplatin combination therapy experienced more grade 3-4 granulocytopenia than patients < 65 years of age (45% versus 39%).

In the previously untreated for advanced colorectal cancer randomized clinical trial [see Clinical Studies (14)] of oxaliplatin, 160 patients treated with oxaliplatin and 5-fluorouracil/leucovorin were < 65 years and 99 patients were \ge 65 years. The same efficacy improvements in response rate, time to tumor progression, and overall survival were observed in the \ge 65 year old patients as in the overall study population. In the previously treated for advanced colorectal cancer randomized clinical trial [see Clinical Studies (14)] of oxaliplatin ,95 patients treated with oxaliplatin and 5-fluorouracil/leucovorin were <65 years and 55 patients were \ge 65 years. The rates of overall adverse reactions, including grade 3 and 4 events, were similar across and within arms in the different age groups in all studies. The incidence of diarrhea, dehydration, hypokalemia, leukopenia, fatigue and syncope were higher in patients \ge 65 years old. No adjustment to starting dose was required in patients \ge 65 years old.

8.6 Patients with Renal Impairment

The safety and effectiveness of the combination of Oxaliplatin Injection and 5-fluorouracil/leucovorin in patients with renal impairment have not been evaluated. The combination of Oxaliplatin Injection and 5-fluorouracil/leucovorin should be used with caution in patients with preexisting renal impairment since the primary route of platinum elimination is renal. Clearance of ultrafilterable platinum is decreased in patients with mild, moderate, and severe renal impairment. A pharmacodynamic relationship between platinum ultrafiltrate levels and clinical safety and effectiveness has not been established [see Adverse Reactions (6.1) and Clinical Pharmacology (12.3)].

10 OVERDOSAGE

There is no known antidote for Oxaliplatin Injection overdose. In addition to thrombocytopenia, the anticipated complications of an Oxaliplatin Injection overdose include hypersensitivity reaction, myelosuppression, nausea, vomiting, diarrhea and neurotoxicity. Several cases of overdoses have been reported with oxaliplatin. Adverse reactions observed were Grade 4 thrombocytopenia (<25,000/mm³) without any bleeding, anemia, sensory neuropathy such as paresthesia, dysesthesia, laryngospasm and facial muscle spasms, gastrointestinal disorders such as nausea, vomiting, stomatitis, flatulence, abdomen enlarged and Grade 4 intestinal obstruction, Grade 4 dehydration, dyspnea, wheezing, chest pain, respiratory failure, severe bradycardia and death. Patients suspected of receiving an overdose should be monitored, and supportive treatment should be administered. The maximum dose of Oxaliplatin Injection that has been administered in a single infusion is 825 mg.

11 DESCRIPTION

Oxaliplatin (oxaliplatin) Injection is an antineoplastic agent with the molecular formula $C_8H_{14}N_2O_4Pt$ and the chemical name of cis-[(1 R,2 R)-1,2-cyclohexanediamine-N,N'] [oxalato(2-)- O,O'] platinum. Oxaliplatin is an organoplatinum complex in which the platinum atom is complexed with 1,2-diaminocyclohexane(DACH) and with an oxalate ligand as a leaving group.

The molecular weight is 397.3. Oxaliplatin is slightly soluble in water at 6 mg/mL, very slightly soluble in methanol, and practically insoluble in ethanol and acetone.

Concentrate solution for infusion:

Oxaliplatin Injection is supplied in vials containing 50 mg or 100 mg of oxaliplatin as a sterile, preservative-free, aqueous solution at a concentration of 5 mg/ml. Water for Injection, USP and lactose monohydrate is present as an inactive ingredient at 450 mg and 900 mg in the 50 mg and 100 mg dosage strengths, respectively.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Oxaliplatin undergoes nonenzymatic conversion in physiologic solutions to active derivatives via displacement of the labile oxalate ligand. Several transient reactive species are formed, including monoaquo and diaquo DACH platinum, which covalently bind with macromolecules. Both inter- and intrastrand Pt-DNA crosslinks are formed. Crosslinks are formed between the *N7* positions of two adjacent guanines (GG), adjacent adenine-guanines (AG), and guanines separated by an intervening nucleotide (GNG). These crosslinks inhibit DNA replication and transcription. Cytotoxicity is cell-cycle nonspecific. *In vivo* studies have shown antitumor activity of oxaliplatin against colon carcinoma. In combination with 5-fluorouracil (5-fluorouracil), oxaliplatin exhibits *in vitro* and *in vivo* antiproliferative activity greater than either compound alone in several tumor models [HT29 (colon), GR (mammary), and L1210 (leukemia)].

12.3 Pharmacokinetics

The reactive oxaliplatin derivatives are present as a fraction of the unbound platinum in plasma ultrafiltrate. The decline of ultrafilterable platinum levels following oxaliplatin administration is triphasic, characterized by two relatively short distribution phases ($t_{1/2\alpha}$; 0.43 hours and $t_{1/2\beta}$; 16.8 hours) and a long terminal elimination phase ($t_{1/2\gamma}$; 391 hours). Pharmacokinetic parameters obtained after a single 2-hour intravenous infusion of oxaliplatin at a dose of 85 mg/m² expressed as ultrafilterable platinum were C_{max} of 0.814 mcg/mL and volume of distribution of 440 L. Interpatient and intrapatient variability in ultrafilterable platinum exposure (AUC_{0-48hr}) assessed over 3 cycles was moderate to low (23% and 6%, respectively). A pharmacodynamic relationship between platinum ultrafiltrate levels and clinical safety and effectiveness has not been established.

Distribution

At the end of a 2-hour infusion of oxaliplatin, approximately 15% of the administered platinum is present in the systemic circulation. The remaining 85% is rapidly distributed into tissues or eliminated in the urine. In patients, plasma protein binding of platinum is irreversible and is greater than 90%. The main binding proteins are albumin and gamma-globulins. Platinum also binds irreversibly and accumulates (approximately 2-fold) in erythrocytes, where it appears to have no relevant activity. No platinum accumulation was observed in plasma ultrafiltrate following 85 mg/m² every two weeks.

Metabolism

Oxaliplatin undergoes rapid and extensive nonenzymatic biotransformation. There is no evidence of cytochrome P450-mediated metabolism *in vitro*.

Up to 17 platinum-containing derivatives have been observed in plasma ultrafiltrate samples from patients, including several cytotoxic species (monochloro DACH platinum, dichloro DACH platinum, and monoaquo and diaquo DACH platinum) and a number of noncytotoxic, conjugated species.

Elimination

The major route of platinum elimination is renal excretion. At five days after a single 2-hour infusion of oxaliplatin, urinary elimination accounted for about 54% of the platinum eliminated, with fecal excretion accounting for only about 2%. Platinum was cleared from plasma at a rate (10 - 17 L/h) that was similar to or exceeded the average human glomerular filtration rate (GFR; 7.5

L/h). There was no significant effect of gender on the clearance of ultrafilterable platinum. The renal clearance of ultrafilterable platinum is significantly correlated with GFR.

Pharmacokinetics in Special Populations

Renal Impairment

The AUC_{0-48hr} of platinum in the plasma ultrafiltrate increases as renal function decreases. The AUC_{0-48hr} of platinum in patients with mild (creatinine clearance, CL_{cr} 50 to 80 mL/min), moderate (CL_{cr} 30 to <50 mL/min) and severe renal (CL_{cr} <30 mL/min) impairment is increased by about 60, 140 and 190%, respectively, compared to patients with normal renal function (CL_{cr} >80 mL/min) [see Adverse Reactions (6), Drug Interactions (7) and Use In Specific Patient Populations (8.6)].

Drug - Drug Interactions

No pharmacokinetic interaction between 85 mg/m² of oxaliplatin and infusional 5-fluorouracil has been observed in patients treated every 2 weeks, but increases of 5-fluorouracil plasma concentrations by approximately 20% have been observed with doses of 130 mg/m² of oxaliplatin administered every 3 weeks. *In vitro*, platinum was not displaced from plasma proteins by the following medications: erythromycin, salicylate, sodium valproate, granisetron, and paclitaxel. *In vitro*, oxaliplatin is not metabolized by, nor does it inhibit, human cytochrome P450 isoenzymes. No P450-mediated drug-drug interactions are therefore anticipated in patients.

Since platinum-containing species are eliminated primarily through the kidney, clearance of these products may be decreased by co-administration of potentially nephrotoxic compounds, although this has not been specifically studied.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term animal studies have not been performed to evaluate the carcinogenic potential of oxaliplatin. Oxaliplatin was not mutagenic to bacteria (Ames test) but was mutagenic to mammalian cells *in vitro* (L5178Y mouse lymphoma assay). Oxaliplatin was clastogenic both *in vitro* (chromosome aberration in human lymphocytes) and *in vivo* (mouse bone marrow micronucleus assay). In a fertility study, male rats were given oxaliplatin at 0, 0.5, 1, or 2 mg/kg/day for five days every 21 days for a total of three cycles prior to mating with females that received two cycles of oxaliplatin on the same schedule. A dose of 2 mg/kg/day (less than one-seventh the recommended human dose on a body surface area basis) did not affect pregnancy rate, but caused developmental mortality (increased early resorptions, decreased live fetuses, decreased live births) and delayed growth (decreased fetal weight). Testicular damage, characterized by degeneration, hypoplasia, and atrophy, was observed in dogs administered oxaliplatin at 0.75 mg/kg/day x 5 days every 28 days for three cycles. A no effect level was not identified. This daily dose is approximately one-sixth of the recommended human dose on a body surface area basis.

14 CLINICAL STUDIES

14.1 Combination Adjuvant Therapy with Oxaliplatin and Infusional 5-Fluorouracil/Leucovorin in Patients with Colon Cancer

An international, multicenter, randomized study compared the efficacy and evaluated the safety of oxaliplatin in combination with an infusional schedule of 5-fluorouracil/leucovorin to infusional 5-fluorouracil/leucovorin alone, in patients with stage II (Dukes' B2) or III (Dukes' C) colon cancer who had undergone complete resection of the primary tumor. The primary objective of the study was to compare the 3-year disease-free survival (DFS) in patients receiving oxaliplatin and infusional 5-fluorouracil/leucovorin to those receiving 5-fluorouracil/leucovorin alone. Patients were to be treated for a total of 6 months (i.e., 12 cycles). A total of 2246 patients were randomized; 1123 patients per study arm. Patients in the study had to be between 18 and 75 years of age, have histologically proven stage II (T_3 - T_4 N0 M0; Dukes' B2) or III (any T N_{1-2} M0; Dukes' C) colon carcinoma (with the inferior pole of the tumor above the peritoneal reflection, i.e., \geq 15 cm from the anal margin) and undergone (within 7 weeks prior to randomization) complete resection of the primary tumor without gross or microscopic evidence of residual disease. Patients had to have had no prior chemotherapy, immunotherapy or radiotherapy, and have an ECOG performance status of 0,1, or 2 (KPS \geq 60%), absolute neutrophil count (ANC) $> 1.5 \times 10^9$ /L, platelets \geq 100×10⁹/L, serum creatinine \leq 1.25 × ULN total bilirubin <2 × ULN, AST/ALT <2 × ULN and carcino-embyrogenic antigen (CEA) <10 ng/mL. Patients with preexisting peripheral neuropathy (NCI grade \geq 1) were ineligible for this trial.

The following table shows the dosing regimens for the two arms of the study.

Table 15 - Dosing Regimens in Adjuvant Therapy Study

Treatment Arm	Dose	Regimen
1	Day 1: oxaliplatin: 85 mg/m ² (2-hour infusion) + leucovorin: 200 mg/m ² (2-hour infusion), followed by	Every 2 weeks 12 cycles

(FOLFOX4) (N =1123)	5-fluorouracil: 400 mg/m² (bolus), 600 mg/m² (22-hour infusion) Day 2: leucovorin: 200 mg/m² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m² (bolus), 600 mg/m² (22-hour infusion)	
5-Fluorouracil/Leucovorin (N=1123)	Day 1:leucovorin: 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion) Day 2: leucovorin: 200 mg/m ² (2-hour infusion), followed by	Every 2 weeks 12 cycles
	5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion)	

The following tables show the baseline characteristics and dosing of the patient population entered into this study. The baseline characteristics were well balanced between arms.

Table 16 - Patient Characteristics in Adjuvant Therapy Study

	Oxaliplatin + Infusional 5-Fluorouracil/Leucovorin N=1123	Infusional 5-Fluorouracil/Leucovorin N=1123
Sex: Male (%)	56.1	52.4
Female (%)	43.9	47.6
Median age (years)	61.0	60.0
<65 years of age (%)	64.4	66.2
≥65 years of age (%)	35.6	33.8
Ka	rnofsky Performance Status (KPS) (%)	,
100	29.7	30.5
90	52.2	53.9
80	4.4	3.3
70	13.2	11.9
≤60	0.6	0.4
	Primary site (%)	
Colon including cecum	54.6	54.4
Sigmoid	31.9	33.8
Recto sigmoid	12.9	10.9
Other including rectum	0.6	0.9
	Bowel obstruction (%)	,
Yes	17.9	19.3
	Perforation (%)	,
Yes	6.9	6.9
	Stage at Randomization (%)	
II (T=3,4 N=0, M=0)	40.1	39.9
III (T=any, N=1,2, M=0)	59.6	59.3
IV (T=any, N=any, M=1)	0.4	0.8
	Staging – T (%)	•
T1	0.5	0.7
T2	4.5	4.8
T3	76.0	75.9
T4	19.0	18.5

Staging – N (%)				
N0	40.2	39.9		
N1	39.4	39.4		
N2	20.4	20.7		
Staging – M (%)				
M1	0.4	0.8		

Table 17 - Dosing in Adjuvant Therapy Study

	Oxaliplatin + Infusional 5-Fluorouracil/Leucovorin N=1108	Infusional 5-Fluorouracil/Leucovorin N=1111
Median Relative Dose Intensity (%)		
5-Fluorouracil	84.4	97.7
Oxaliplatin	80.5	N/A
Median Number of Cycles	12	12
Median Number of cycles with Oxaliplatin	11	N/A

The following table and figures summarize the disease-free survival (DFS) results in the overall randomized population and in patients with stage II and III disease based on an ITT analysis. The median duration of follow-up was approximately 77 months.

Table 18 - Summary of DFS analysis - ITT analysis

	Oxaliplatin + Infusional 5-fluorouracil/leucovorin	Infusional 5-fluorouracil/leucovorin	
Parameter			
	Overall		
N	1123	1123	
Number of events – relapse or death (%)	304 (27.1)	360 (32.1)	
Disease-free survival % [95% CI] *	73.3 [70.7, 76.0]	67.4 [64.6, 70.2]	
Hazard ratio [95% CI] [†]	0.80 [0.68	, 0.93]	
Stratified Logrank test	p=0.00)3	
Stage III (Dukes' C)			
N	672	675	
Number of events –relapse or death (%)	226 (33.6)	271 (40.1)	
Disease-free survival % [95% CI] *	66.4 [62.7, 70.0]	58.9 [55.2, 62.7]	
Hazard ratio [95% CI] [†]	0.78 [0.65,	, 0.93]	
Logrank test	p=0.00	p=0.005	
	Stage II (Dukes' B2)		
N	451	448	
Number of events – relapse or death (%)	78 (17.3)	89 (19.9)	
Disease-free survival % [95% CI] *	83.7 [80.2, 87.1]	79.9 [76.2, 83.7]	
Hazard ratio [95% CI] [†]	0.84 [0.62, 1.14]		
Logrank test	p=0.258		

Data cut off for disease free survival 1 June 2006

In the overall and stage III colon cancer populations DFS was statistically significantly improved in the oxaliplatin combination arm compared to infusional 5-fluorouracil/leucovorin alone. However, a statistically significant improvement in DFS was not noted in Stage II patients.

Figure 2 shows the DFS Kaplan-Meier curves for the comparison of oxaliplatin and infusional 5-fluorouracil/leucovorin combination and infusional 5-fluorouracil/leucovorin alone for the overall population (ITT analysis).

^{*}Disease-free survival at 5 years

[†]A hazard ratio of less than 1.00 favors oxaliplatin + infusional 5-fluorouracil/leucovorin

Figure 3 shows the DFS Kaplan-Meier curves for the comparison of oxaliplatin and infusional 5-fluorouracil/leucovorin combination and infusional 5-fluorouracil/leucovorin alone in Stage III patients.

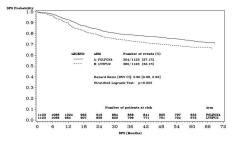


Figure 2 - DFS Kaplan-Meier curves by treatment arm (cutoff: 1 June 2006) – ITT population

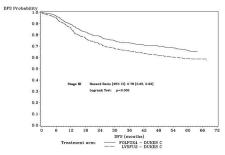


Figure 3 - DFS Kaplan-Meier curves by treatment arm in Stage III patients (cutoff: 1 June 2006) - ITT population

The following table summarizes the overall survival (OS) results in the overall randomized population and in patients with stage II and III disease, based on the ITT analysis.

Table 19 - Summary of OS analysis - ITT analysis

Parameter	Oxaliplatin + Infusional 5-Fluorouracil/ Leucovorin	Infusional 5-Fluorouracil/ Leucovorin
	Overall	-
N	1123	1123
Number of death events (%)	245 (21.8)	283 (25.2)
Hazard ratio [*] [95% CI]	0.84 [0.71 , 1.00]	
	Stage III (Dukes' C)	
N	672	675
Number of death events (%)	182 (27.1)	220 (32.6)
Hazard ratio [*] [95% CI]	0.80 [0.65 , 0.97]	
	Stage II (Dukes' B2)	
N	451	448
Number of death events (%)	63 (14.0)	63 (14.1)
Hazard ratio [*] [95% CI]	1.00 [0.70 , 1.41]	

Data cut off for overall survival 16 January 2007

14.2 Combination Therapy with Oxaliplatin and 5-Fluorouracil/Leucovorin in Patients Previously Untreated for Advanced Colorectal Cancer

A North American, multicenter, open-label, randomized controlled study was sponsored by the National Cancer Institute (NCI) as an intergroup study led by the North Central Cancer Treatment Group (NCCTG). The study had 7 arms at different times during its conduct, four of which were closed due to either changes in the standard of care, toxicity, or simplification. During the study, the control arm was changed to irinotecan plus 5-fluorouracil/leucovorin. The results reported below compared the efficacy and safety of two experimental regimens, oxaliplatin in combination with infusional 5-fluorouracil/leucovorin and a combination of oxaliplatin plus irinotecan, to an approved control regimen of irinotecan plus 5-fluorouracil/leucovorin in 795 concurrently randomized patients previously untreated for locally advanced or metastatic colorectal cancer. After completion of enrollment, the dose of irinotecan plus 5-fluorouracil/leucovorin was decreased due to toxicity. Patients had to be at least 18 years of age, have known locally advanced, locally recurrent, or metastatic colorectal adenocarcinoma not curable by surgery or amenable to radiation therapy with curative intent, histologically proven colorectal adenocarcinoma, measurable or evaluable disease, with an ECOG performance status 0,1, or

^{*}A hazard ratio of less than 1.00 favors oxaliplatin + infusional 5-fluorouracil/leucovorin

2. Patients had to have granulocyte count $\geq 1.5 \times 10^9 / L$, platelets $\geq 100 \times 10^9 / L$, hemoglobin ≥ 9.0 gm/dL, creatinine $\leq 1.5 \times ULN$, total bilirubin ≤ 1.5 mg/dL, AST $\leq 5 \times ULN$, and alkaline phosphatase $\leq 5 \times ULN$. Patients may have received adjuvant therapy for resected Stage II or III disease without recurrence within 12 months. The patients were stratified for ECOG performance status (0, 1 vs. 2), prior adjuvant chemotherapy (yes vs. no), prior immunotherapy (yes vs. no), and age (<65 vs. ≥ 65 years). Although no post study treatment was specified in the protocol, 65 to 72% of patients received additional post study chemotherapy after study treatment discontinuation on all arms. Fifty-eight percent of patients on the oxaliplatin plus 5-fluorouracil/leucovorin arm received an irinotecan-containing regimen and 23% of patients on the irinotecan plus 5-fluorouracil/leucovorin arm received oxaliplatin containing regimens. Oxaliplatin was not commercially available during the trial.

The following table presents the dosing regimens of the three arms of the study.

Table 20 - Dosing Regimens in Patients Previously Untreated for Advanced Colorectal Cancer Clinical Trial

Treatment Arm	Dose	Regimen
Oxaliplatin + 5- Fluorouracil/Leucovorin (FOLFOX4) (N=267)	Day 1: oxaliplatin: 85 mg/m ² (2-hour infusion) + leucovorin 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion) Day 2: leucovorin 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion)	Every 2 weeks
Irinotecan + 5-Fluorouracil/ Leucovorin (IFL) (N=264)	Day 1: irinotecan 125 mg/m 2 as a 90–min infusion + leucovorin 20 mg/m 2 as a 15-min infusion or intravenous push, followed by 5-fluorouracil 500 mg/m 2 intravenous bolus weekly \times 4	Every 6 weeks
Oxaliplatin + Irinotecan (IROX) (N=264)	Day 1: oxaliplatin: 85 mg/m ² intravenous (2-hour infusion) + irinotecan 200 mg/m ² intravenous over 30 minutes	Every 3 weeks

The following table presents the demographics of the patient population entered into this study.

Table 21 - Patient Demographics in Patients Previously Untreated for Advanced Colorectal Cancer Clinical Trial

	Oxaliplatin + 5-Fluorouracil/Leucovorin N=267	Irinotecan + 5-Fluorouracil/Leucovorin N=264	Oxaliplatin + Irinotecan N=264
Sex: Male (%)	58.8	65.2	61.0
Female (%)	41.2	34.8	39.0
Median age (years)	61.0	61.0	61.0
<65 years of age (%)	61	62	63
≥65 years of age (%)	39	38	37
ECOG (%)			
0.1	94.4	95.5	94.7
2	5.6	4.5	5.3
Involved organs (%)	•		
Colon only	0.7	0.8	0.4
Liver only	39.3	44.3	39.0
Liver + other	41.2	38.6	40.9
Lung only	6.4	3.8	5.3
Other (including lymph nodes)	11.6	11.0	12.9
Not reported	0.7	1.5	1.5
Prior radiation (%)	3.0	1.5	3.0
Prior surgery (%)	74.5	79.2	81.8
Prior adjuvant (%)	15.7	14.8	15.2

The length of a treatment cycle was 2 weeks for the oxaliplatin and 5-fluorouracil/leucovorin regimen; 6 weeks for the irinotecan plus 5-fluorouracil/leucovorin regimen; and 3 weeks for the oxaliplatin plus irinotecan regimen. The median number of cycles administered per patient was 10 (23.9 weeks) for the oxaliplatin and 5-fluorouracil/leucovorin regimen, 4 (23.6 weeks) for the irinotecan plus 5-fluorouracil/leucovorin regimen, and 7 (21.0 weeks) for the oxaliplatin plus irinotecan regimen. Patients treated with the oxaliplatin and 5-fluorouracil/leucovorin combination had a significantly longer time to tumor progression based on investigator assessment, longer overall survival, and a significantly higher confirmed response rate based on investigator assessment compared to patients given irinotecan plus 5-fluorouracil/leucovorin. The following table summarizes the efficacy results.

Table 22 – Summary of Efficacy

	Oxaliplatin + 5-Fluorouracil/Leucovorin N=267	Irinotecan + 5-Fluorouracil/Leucovorin N=264	Oxaliplatin + Irinotecan N=264
Survival (ITT)			
Number of deaths N (%)	155 (58.1)	192 (72.7)	175 (66.3)
Median survival (months)	19.4	14.6	17.6
Hazard Ratio and (95% confidence interval)	0.65 (0.53-0.80)*		
P-value	<0.0001*	-	-
TTP (ITT, investigator assessment)			
Percentage of progressors	82.8	81.8	89.4
Median TTP (months)	8.7	6.9	6.5
Hazard Ratio and (95% confidence interval) †	0.74 (0.61-0.89)*		
P-value	0.0014*	-	-
Response Rate (investigator assessment) [‡]			
Patients with measurable disease	210	212	215
Complete response N (%)	13 (6.2)	5 (2.4)	7 (3.3)
Partial response N (%)	82 (39.0)	64 (30.2)	67 (31.2)
Complete and partial response N (%)	95 (45.2)	69 (32.5)	74 (34.4)
95% confidence interval	(38.5 - 52.0)	(26.2 – 38.9)	(28.1 - 40.8)
P-value	0.0080^*	-	-

The numbers in the response rate and TTP analysis are based on unblinded investigator assessment.

Figure 4 illustrates the Kaplan-Meier survival curves for the comparison of oxaliplatin and 5-fluorouracil/leucovorin combination and oxaliplatin plus irinotecan to irinotecan plus 5-fluorouracil/leucovorin.

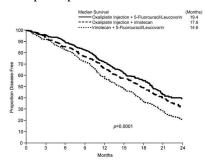


Figure 4 – Kaplan-Meier Overall Survival by treatment arm

A descriptive subgroup analysis demonstrated that the improvement in survival for oxaliplatin plus 5-fluorouracil/leucovorin compared to irinotecan plus 5-fluorouracil/leucovorin appeared to be maintained across age groups, prior adjuvant therapy, and number of organs involved. An estimated survival advantage in oxaliplatin plus 5-fluorouracil/leucovorin versus irinotecan plus 5-fluorouracil/leucovorin was seen in both genders; however it was greater among women than men. Insufficient subgroup sizes prevented analysis by race.

^{*}Compared to irinotecan plus 5-fluorouracil/leucovorin (IFL) arm

[†]A hazard ratio of less than 1.00 favors oxaliplatin + infusional 5-fluorouracil/leucovorin

[‡]Based on all patients with measurable disease at baseline

14.3 Combination Therapy with Oxaliplatin and 5-fluorouracil/leucovorin in Previously Treated Patients with Advanced Colorectal Cancer

A multicenter, open-label, randomized, three-arm controlled study was conducted in the US and Canada comparing the efficacy and safety of oxaliplatin in combination with an infusional schedule of 5-fluorouracil/leucovorin to the same dose and schedule of 5-fluorouracil/leucovorin alone and to single agent oxaliplatin in patients with advanced colorectal cancer who had relapsed/progressed during or within 6 months of first-line therapy with bolus 5-fluorouracil/leucovorin and irinotecan. The study was intended to be analyzed for response rate after 450 patients were enrolled. Survival will be subsequently assessed in all patients enrolled in the completed study. Accrual to this study is complete, with 821 patients enrolled. Patients in the study had to be at least 18 years of age, have unresectable, measurable, histologically proven colorectal adenocarcinoma, with a Karnofsky performance status >50%. Patients had to have SGOT(AST) and SGPT(ALT) \leq 2× the institution's upper limit of normal (ULN), unless liver metastases were present and documented at baseline by CT or MRI scan, in which case \leq 5× ULN was permitted. Patients had to have alkaline phosphatase \leq 2× the institution's ULN, unless liver metastases were present and documented at baseline by CT or MRI scan, in which case \leq 5× ULN was permitted. Prior radiotherapy was permitted if it had been completed at least 3 weeks before randomization.

The dosing regimens of the three arms of the study are presented in the table below.

Table 23 – Dosing Regimens in Refractory and Relapsed Colorectal Cancer Clinical Trial

Treatment Arm	Dose	Regimen
	Day 1: oxaliplatin: 85 mg/m ² (2-hour infusion) + leucovorin 200 mg/m ² (2-	Every 2 weeks
Oxaliplatin + 5-Fluorouracil/ Leucovorin	hour infusion), followed by 5-fluorouracil: 400 mg/m² (bolus), 600 mg/m² (22-hour infusion)	
(N =152)	Day 2: leucovorin 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil:	
	400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion)	
5-Fluorouracil/ Leucovorin	Day 1: leucovorin 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion)	Every 2 weeks
(N=151)	Day 2: leucovorin 200 mg/m ² (2-hour infusion), followed by 5-fluorouracil: 400 mg/m ² (bolus), 600 mg/m ² (22-hour infusion)	
Oxaliplatin (N=156)	Day 1: oxaliplatin 85 mg/m ² (2-hour infusion)	Every 2 weeks

Patients entered into the study for evaluation of response must have had at least one unidimensional lesion measuring \geq 20mm using conventional CT or MRI scans, or \geq 10mm using a spiral CT scan. Tumor response and progression were assessed every 3 cycles (6 weeks) using the Response Evaluation Criteria in Solid Tumors (RECIST) until radiological documentation of progression or for 13 months following the first dose of study drug(s), whichever came first. Confirmed responses were based on two tumor assessments separated by at least 4 weeks.

The demographics of the patient population entered into this study are shown in the table below.

Table 24 – Patient Demographics in Refractory and Relapsed Colorectal Cancer Clinical Trial

	5-Fluorouracil/Leucovorin (N = 151)	Oxaliplatin (N = 156)	Oxaliplatin + 5-Fluorouracil/Leucovorin (N = 152)
Sex: Male (%)	54.3	60.9	57.2
Female (%)	45.7	39.1	42.8
Median age (years)	60.0	61.0	59.0
Range	21-80	27-79	22-88
Race (%)	·		·
Caucasian	87.4	84.6	88.8
Black	7.9	7.1	5.9
Asian	1.3	2.6	2.6
Other	3.3	5.8	2.6
KPS (%)			·
70 – 100	94.7	92.3	95.4
50 - 60	2.6	4.5	2.0

Not reported	2.6	3.2	2.6
Prior radiotherapy (%)	25.2	19.2	25.0
Prior pelvic radiation (%)	18.5	13.5	21.1
Number of metastatic sites (%)			
1	27.2	31.4	25.7
≥2	72.2	67.9	74.3
Liver involvement (%)			•
Liver only	22.5	25.6	18.4
Liver + other	60.3	59.0	53.3

The median number of cycles administered per patient was 6 for the oxaliplatin and 5-fluorouracil/leucovorin combination and 3 each for 5-fluorouracil/leucovorin alone and oxaliplatin alone.

Patients treated with the combination of oxaliplatin and 5-fluorouracil/leucovorin had an increased response rate compared to patients given 5-fluorouracil/leucovorin or oxaliplatin alone. The efficacy results are summarized in the tables below.

Table 25 - Response Rates (ITT Analysis)

Best Response	5-Fluorouracil/Leucovorin (N=151)	Oxaliplatin (N=156)	Oxaliplatin + 5-Fluorouracil/Leucovorin (N=152)
CR	0	0	0
PR	0	2 (1%)	13 (9%)
p-value	0.0002 for 5-Fluorouracil/Leucovorin vs. Oxaliplatin + 5-Fluorouracil/Leucovorin		
95%CI	0-2.4%	0.2-4.6%	4.6-14.2%

Table 26 - Summary of Radiographic Time to Progression*

Arm	5-Fluorouracil/ Leucovorin (N=151)	Oxaliplatin (N=156)	Oxaliplatin + 5-Fluorouracil/Leucovorin (N=152)
No. of Progressors	74	101	50
No. of patients with no radiological evaluation beyond baseline	22 (15%)	16 (10%)	17 (11%)
Median TTP (months)	2.7	1.6	4.6
95% CI	1.8-3.0	1.4-2.7	4.2-6.1

^{*}This is not an ITT analysis. Events were limited to radiographic disease progression documented by independent review of radiographs. Clinical progression was not included in this analysis, and 18% of patients were excluded from the analysis based on unavailability of the radiographs for independent review.

At the time of the interim analysis 49% of the radiographic progression events had occurred. In this interim analysis an estimated 2-month increase in median time to radiographic progression was observed compared to 5-fluorouracil/leucovorin alone. Of the 13 patients who had tumor response to the combination of oxaliplatin and 5-fluorouracil/leucovorin, 5 were female and 8 were male, and responders included patients <65 years old and ≥65 years old. The small number of non-Caucasian participants made efficacy analyses in these populations uninterpretable.

15 REFERENCES

- NIOSH Alert: Preventing occupational exposures to antineoplastic and other hazardous drugs in healthcare settings. 2004. U.S.
 Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-165.
- 2. OSHA Technical Manual, TED 1-0.15A, Section VI: Chapter 2. Controlling Occupational Exposure to Hazardous Drugs. OSHA, 1999. http://www.osha.gov/dts/osta/otm/otm_vi/otm_vi_2.html
- 3. American Society of Health-System Pharmacists. (2006) ASHP Guidelines on Handling Hazardous Drugs.
- 4. Polovich, M., White, J. M., & Kelleher, L.O. (eds.) 2005. Chemotherapy and biotherapy guidelines and recommendations for practice (2nd. ed.) Pittsburgh, PA: Oncology Nursing Society.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Concentrate solution for infusion:

Oxaliplatin Injection is supplied in clear, glass, single-use vials with gray elastomeric stoppers and aluminum flip-off seals containing 50 mg or 100 mg of oxaliplatin as a sterile, preservative-free, aqueous solution at a concentration of 5 mg/ml. Water for injection and lactose monohydrate are present as inactive ingredients.

NDC 0703-3985-01: 50 mg single-use vial with flip-off seal individually packaged in a carton.

NDC 0703-3986-01: 100 mg single-use vial with flip-off seal individually packaged in a carton.

16.2 Storage

Concentrate solution for infusion:

Store under normal lighting conditions at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP controlled room temperature].

16.3 Handling and Disposal

As with other potentially toxic anticancer agents, care should be exercised in the handling and preparation of infusion solutions prepared from oxaliplatin. The use of gloves is recommended. If a solution of oxaliplatin contacts the skin, wash the skin immediately and thoroughly with soap and water. If oxaliplatin contacts the mucous membranes, flush thoroughly with water.

Procedures for the handling and disposal of anticancer drugs should be considered. Several guidelines on the subject have been published [see References (15)]. There is no general agreement that all of the procedures recommended in the guidelines are necessary or appropriate.

17 PATIENT COUNSELING INFORMATION

17.1 Information for Patients

Patients and patients' caregivers should be informed of the expected side effects of oxaliplatin, particularly its neurologic effects, both the acute, reversible effects and the persistent neurosensory toxicity. Patients should be informed that the acute neurosensory toxicity may be precipitated or exacerbated by exposure to cold or cold objects. Patients should be instructed to avoid cold drinks, use of ice, and should cover exposed skin prior to exposure to cold temperature or cold objects.

Patients must be adequately informed of the risk of low blood cell counts and instructed to contact their physician immediately should fever, particularly if associated with persistent diarrhea, or evidence of infection develop.

Patients should be instructed to contact their physician if persistent vomiting, diarrhea, signs of dehydration, cough or breathing difficulties occur, or signs of allergic reaction appear.

No studies on the effects on the ability to drive and use machines have been performed. However, oxaliplatin treatment resulting in an increase risk of dizziness, nausea and vomiting, and other neurologic symptoms that affect gait and balance may lead to a minor or moderate influence on the ability to drive and use machines.

Vision abnormalities, in particular transient vision loss (reversible following therapy discontinuation), may affect patients' ability to drive and use machines. Therefore, patients should be warned of the potential effect of these events on the ability to drive or use machines.

Manufactured by: Pharmachemie B.V Haarlem, The Netherlands Manufactured for: Teva Parenterals Medicines, Inc. Irvine, CA 92618

17.2 FDA-Approved Patient Labeling

Patient Information

OXALIPLATIN INJECTION® (ox-Al-ah-platin)

concentrate, for solution for intravenous use

Read this information carefully before you start using oxaliplatin. It will help you learn more about oxaliplatin. This information does not take the place of talking to your doctor about your medical condition or your treatment. Ask your doctor about any questions you have.

What is the most important information I should know about Oxaliplatin Injection? Oxaliplatin Injection can cause serious allergic reactions.

In people who get severe allergic reactions while taking platinum medicines, death can occur.

Get emergency help right away if you:

- suddenly have trouble breathing.
- · feel like your throat is closing up.

Call your doctor right away if you have any signs of allergic reaction:

- rash
- · flushed face
- hives
- itching
- swelling of your lips or tongue
- · sudden cough
- · dizziness or feel faint
- sweating
- chest pain

If you have vision problems while taking Oxaliplatin Injection

• do not drive, operate heavy machines, or engage in dangerous activities.

See "What are the possible side effects of Oxaliplatin Injection" for information on other serious side effects.

What is Oxaliplatin Injection?

Oxaliplatin Injection is an anti-cancer (chemotherapy) medicine that is used with other anti-cancer medicines called 5-fluorouracil (5-FU) and leucovorin (LV) to treat adults with:

- stage III colon cancer after surgery to remove the tumor
- advanced colon or rectal cancer (colo-rectal cancer).

Oxaliplatin Injection with infusional 5-fluorouracil and leucovorin was shown to lower the chance of colon cancer returning when given to patients with stage III colon cancer after surgery to remove the tumor. Oxaliplatin also increases survival in patients with stage III colon cancer. Oxaliplatin with infusional 5-fluorouracil and leucovorin was also shown to increase survival, shrink tumors and delay growth of tumors in some patients with advanced colorectal cancer.

It is not known if Oxaliplatin Injection works in children.

Who should not use Oxaliplatin Injection?

Do not use Oxaliplatin Injection if you are allergic to any of the ingredients in oxaliplatin or other medicines that contain platinum. Cisplatin (Platinol[®]) and carboplatin (Paraplatin[®]) are other chemotherapy medicines that also contain platinum. See the end of this leaflet for a list of the ingredients in Oxaliplatin Injection.

What should I tell my doctor before treatment with Oxaliplatin Injection?

Tell your doctor about all your medical conditions including, if you are:

- pregnant or planning to become pregnant. Oxaliplatin may harm your unborn child. You should avoid becoming pregnant while taking oxaliplatin . Talk with your doctor about how to avoid pregnancy.
- breast feeding or plan to breast feed. We do not know if oxaliplatin can pass through your milk and if it can harm your baby. You will need to decide whether to stop breast feeding or not to take oxaliplatin.

Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Oxaliplatin Injection may affect how other medicines work in your body.

Know the medicines you take. Keep a list of them and show it to your doctor and pharmacist when you get a new medicine.

How is Oxaliplatin Injection given to me?

Oxaliplatin Injection is given to you through your veins (blood vessels).

- Your doctor will prescribe Oxaliplatin Injection in an amount that is right for you.
- Your doctor will treat you with several medicines for your cancer.

- It is very important that you do exactly what your doctor and nurse have taught you to do.
- Some medicines may be given to you before Oxaliplatin Injection to help prevent nausea and vomiting.
- Oxaliplatin Injection is given with 2 other chemotherapy medicines, leucovorin and 5-fluorouracil .
- Each treatment course is given to you over 2 days. You will receive Oxaliplatin Injection the first day only.
- There are usually 14 days between each chemotherapy treatment course.

Treatment Day 1:

Oxaliplatin Injection and leucovorin are given through a thin plastic tube put into a vein (intravenous infusion or I.V.) and given for 2 hours. You will be watched by a healthcare provider during this time.

Right after the Oxaliplatin Injection and leucovorin are finished, 2 doses of 5-fluorouracil will be given. The first dose is given right away into your I.V. tube. The second dose will be given into your I.V. tube over the next 22 hours, using a pump device.

Treatment Day 2:

You will not get Oxaliplatin Injection on Day 2. Leucovorin and 5-fluorouracil will be given the same way as on Day 1.

During your treatment with Oxaliplatin Injection:

- It is important for you to keep all appointments. Call your doctor if you must miss an appointment. There may be special instructions for you.
- Your doctor may change how often you get Oxaliplatin Injection, how much you get, or how long the infusion will take.
- You and your doctor will discuss how many times you will get Oxaliplatin Injection.

The 5-fluorouracil will be given through your I.V. with a pump. If you have any problems with the pump or the tube, call your doctor, your nurse, or the person who is responsible for your pump. Do not let anyone other than a healthcare provider touch your infusion pump or tubing.

What activities should I avoid while on treatment with Oxaliplatin Injection?

- Avoid cold temperatures and cold objects. Cover your skin if you must go outside in cold temperatures.
- Do not drink cold drinks or use ice cubes in drinks.
- Do not put ice or ice packs on your body.

See the end of this leaflet ("How can I reduce the side effects caused by cold temperatures?") for more information.

Talk with your doctor and nurse about your level of activity during treatment with Oxaliplatin Injection. Follow their instructions.

What are the possible side effects of Oxaliplatin Injection?

Oxaliplatin Injection can cause serious side effects:

- Serious allergic reactions. See "What is the most important information I should know about Oxaliplatin Injection?"
- Nerve problems (peripheral neuropathy). Oxaliplatin Injection can affect how your nerves work and make you feel. Tell your doctor right away if you get any signs of nerve problems listed below:
- Very sensitive to cold temperatures and cold objects
- Trouble breathing, swallowing, or saying words, jaw tightness, odd feelings in your tongue, or chest pressure
- Pain, tingling, burning (pins and needles, numb feeling) in your hands, feet, or around your mouth or throat, which may cause problems walking or performing activities of daily living.

The first signs of nerve problems may happen with the first treatment. The nerve problems can also start up to 2 days after treatment. If you develop nerve problems, the amount of Oxaliplatin Injection in your next treatment may be changed or oxaliplatin treatment may be stopped.

For information on ways to lessen or help with the nerve problems, see the end of this leaflet, "How can I reduce the side effects caused by cold temperatures?"

- Lung problems (interstitial fibrosis). Tell your doctor if you get a dry cough and have trouble breathing (shortness of breath) before your next treatment. These may be signs of a serious lung disease.
- Liver problems (hepatotoxicity). Your doctor will do blood tests to watch for this.
- Harm to an unborn baby. Oxaliplatin Injection may cause harm to your unborn baby. See "What should I tell my doctor before treatment with Oxaliplatin Injection?"

Common side effects with Oxaliplatin Injection include:

• decreased blood counts: oxaliplatin can cause a decrease in neutrophils (a type of white blood cells important in fighting in bacterial infections), red blood cells (blood cells that carry oxygen to the tissues), and platelets (important for clotting and to control bleeding).

Call your doctor right away if you get any of the following signs of infection:

- Fever (temperature of 100.5 F or greater)
- · Chills or shivering
- Cough that brings up mucus
- Burning or pain on urination
- Pain on swallowing
- · Sore throat
- Redness or swelling at intravenous site
- Tell your doctor about any bleeding or bruising.
- nausea
- vomiting
- diarrhea
- constipation
- · mouth sores
- stomach pain
- · decreased appetite
- tiredness
- eyesight (visual) problems including reversible short-term loss of vision. Tell your doctor about any eyesight changes
- injection site reactions. Reactions may include redness, swelling, pain, tissue damage
- hair loss (alopecia)

Call your doctor if you get any of the following:

- · Vomiting that does not go away
- Frequent, loose, watery bowel movements (Diarrhea)
- Signs of dehydration (too much water loss)
- tiredness
- thirst
- dry mouth
- lightheadedness (dizziness)
- · decreased urination

Tell your doctor if you have any side effect that bothers your or that does not go away. These are not all the possible side effects of Oxaliplatin Injection. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How can I reduce the side effects caused by cold temperatures?

- Cover yourself with a blanket while you are getting your Oxaliplatin Injection infusion.
- Do not breathe deeply when exposed to cold air.

- Wear warm clothing in cold weather at all times. Cover your mouth and nose with a scarf or a pull-down cap (ski cap) to warm the air that goes to your lungs.
- Wear gloves when taking things from the freezer or refrigerator.
- Drink fluids warm or at room temperature.
- Always drink through a straw.
- Do not use ice chips if you have nausea or mouth sores. Ask your nurse about what you can use.
- Be aware that most metals are cold to touch, especially in the winter. These include your car door and mailbox. Wear gloves to touch cold objects.
- Do not run the air-conditioning at high levels in the house or in the car in hot weather.
- If your body gets cold, warm-up the affected part. If your hands get cold, wash them with warm water.
- Always let your nurse and doctor know before your next treatment how well you did since your last visit.

This list is not complete and your healthcare provider may have other useful tips for helping you with these side effects.

General information about the safe and effective use of Oxaliplatin Injection.

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets.

This leaflet summarizes the most important information about Oxaliplatin Injection . If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about Oxaliplatin Injection that is written for health professionals.

What are the ingredients in Oxaliplatin Injection?

Active ingredient: Oxaliplatin

Concentrate solution for infusion inactive ingredients: lactose monohydrate, and water for injection

Manufactured by:

Pharmachemie B.V

Haarlem, The Netherlands

Manufactured for:

Teva Parenterals Medicines, Inc.

Irvine, CA 92618

PRINCIPAL DISPLAY PANEL - 50 MG/10 ML VIAL LABEL

NDC 0703-3985-01

Rx only

Oxaliplatin Injection

50 mg/10 mL

(5 mg/mL)

For Intravenous Use Only

Sterile Aqueous Solution - Preservative Free

Single Use Vial - Discard Unused Portion

Must Be Diluted Prior to Use with 5% Dextrose Injection

Caution: Contains Cytotoxic Agent

TEVA



PRINCIPAL DISPLAY PANEL - 50 MG/10 ML VIAL CARTON

NDC 0703-3985-01

Rx only

Oxaliplatin Injection

50 mg/10 mL

(5 mg/mL)

For Intravenous Use Only

Sterile Aqueous Solution -

Preservative Free

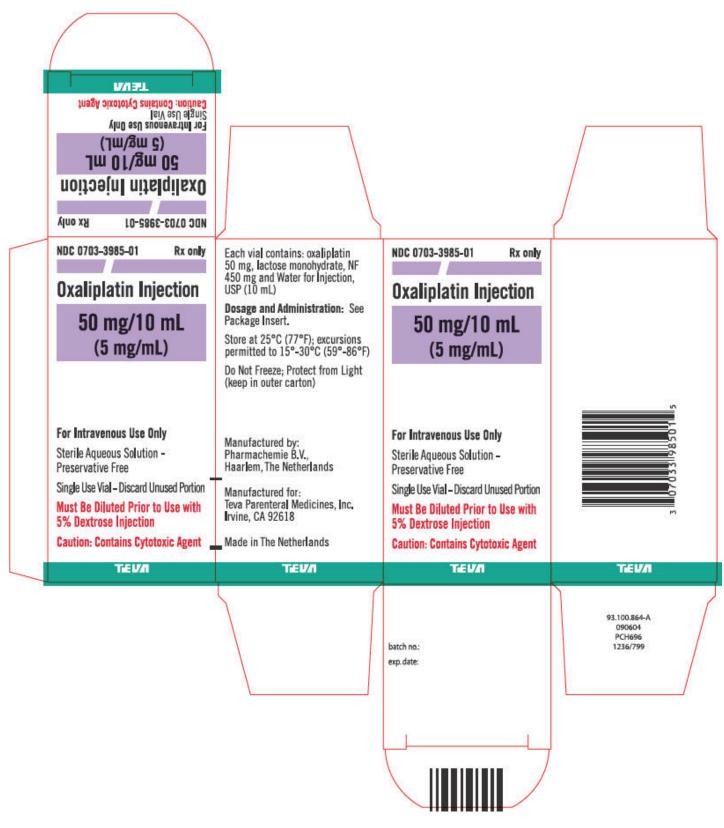
Single Use Vial - Discard Unused Portion

Must Be Diluted Prior to Use with

5% Dextrose Injection

Caution: Contains Cytotoxic Agent

TEVA



PRINCIPAL DISPLAY PANEL - 100 MG/20 ML VIAL LABEL NDC 0703-3986-01
Rx only
Oxaliplatin Injection
100 mg/20 mL
(5 mg/mL)
For Intravenous Use Only

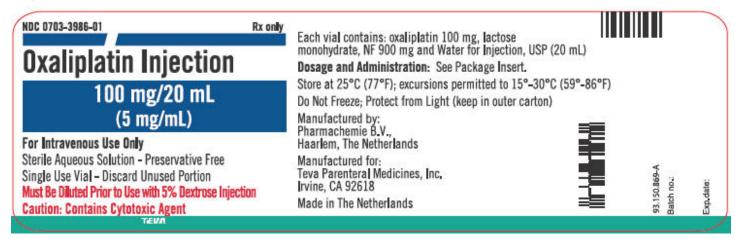
Sterile Aqueous Solution - Preservative Free

Single Use Vial - Discard Unused Portion

Must Be Diluted Prior to Use with 5% Dextrose Injection

Caution: Contains Cytotoxic Agent

TEVA



PRINCIPAL DISPLAY PANEL - 100 MG/20 ML VIAL CARTON

NDC 0703-3986-01

Rx only

Oxaliplatin Injection

100 mg/20 mL

(5 mg/mL)

For Intravenous Use Only

Sterile Aqueous Solution -

Preservative Free

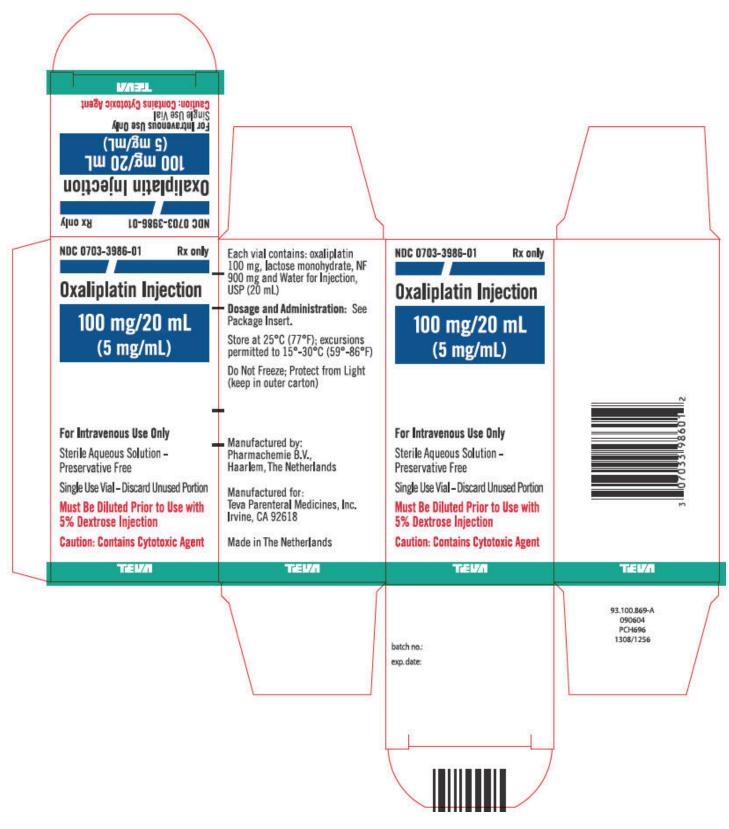
Single Use Vial - Discard Unused Portion

Must Be Diluted Prior to Use with

5% Dextrose Injection

Caution: Contains Cytotoxic Agent

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